DON'T SAY IT --- Write It!

DATE: January 3, 1996

TO: Greta P. Davis, Ecology B5-18

ROM: Ellen M. Mattlin, RL

Telephone: 376-2385

cc: P. C. Miller, WHC N2-57 A. L. Prignano, WHC H6-23 F. A. Ruck, III, WHC H6-23

Administrative Record H6-08

SUBJECT: 4843 AMSF Closure: Field Logbook, Analytical Results, and

Inspection Checklist

Attached please find the following:

1) Field Logbook WHC-N-205, number 52, pages 72 and 73.

This log records the field activities performed in obtaining samples of the sweepings collected from the floor of the 4843 Alkali Metal Storage Facility (4843 AMSF). This work was performed as required by the 4843 AMSF Closure Plan, Revision 1, chapter 7.

2) Westinghouse Hanford Company Internal Memo SAS95-239, dated December 11, 1995.

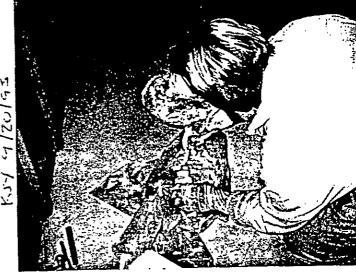
This Internal Memo contains the results from the chemical analyses of the sample obtained from the sweepings of the 4843 AMSF floor. A draft of this memo, dated August 14, 1995, was transmitted during the September 1995 Unit Managers' Meeting (UMM). Changes were made in the distribution, signature, and Internal Memo number only; no changes were made in the subject or text from the memo attached to the September 1995 UMM minutes.

3) Checklist for inspection of the 4843 AMSF for carbonates.

This checklist, signed by WHC and RL personnel, verifies that the 4843 AMSF is free of lithium and sodium carbonates as determined by visual inspection as discussed in Chapter 7 of the 4843 AMSF Closure Plan, Revision 1. The inspection occurred and the checklist was signed on September 25, 1995.



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on 7/20/95	
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ple Marrative

soil sample was received 07/20/95 from 4843 Facility for analysis of uble cations. Sample was analyzed on 8/10/95 on a DX-100 Chromatograph ng EPA Method 300.7. Sample was stored under controlled conditions and racted with reagent-grade water prior to analysis.

le Results

4 						
mple ID	Lithium mg/a	Sodium ma/g	Ammonium ma/a	Potassium . mg/g	Magnesium mg/q	Calcium mg/g
5086-01	<0.010	0.095	0.105	0.208_	0.140	0.441

Analyte	Beginning ' Standard	Ending Standard	Standard Additic to FT5069-08
Lithium	117%	117%	102.3%
Sodium	107%	107%	102.9%
Ammon i um	116%	*132%	103.0%
Potassium	104%	104%	113.3%
Magnesium	*144%	+145%	114.7
Calcium	*123%	*133%	113.3
Sodium	111%	112%	101%
* Standard	recovery exc	eeded method ac	ceptance range of 80-

Quality control standards were analyzed before and after sample analysis to demonstrate instrument accuracy and method control. A blank was analyzed to show that there was no contamination added to the sample during the extraction process or to the column of the instrument. Standard recoveries are stated below:

Continued on Page Home

Read and Understood By

Signed

From:

Special Analytical Studies

SAS95-239

Phone:

373-4771 S3-90

Date: December 11, 1995 Subject: 4843 BUILDING SOLUBLE CATION ANALYSIS - FT5086-01

To:

A. L. Prignano

H6-23

cc: D. J. Smith FAST File

Attached is the analytical report in support of this project.

If you have any questions regarding analysis, please contact either Mr. Don Smith at 373-2482 or Ms. Joy Smith at 373-9171.

L. L. Lockrem

Manager

sir

Attachment

ANALYTICAL REPORT

Sample Narrative

One soil sample was received July 20, 1995 from 4843 Facility for analysis of soluble cations. Sample was analyzed on August 10, 1995 on a DX-100 Chromatograph using EPA method 300.7. Sample was stored under controlled conditions and extracted with reagent-grade water prior to analysis.

Sample Results

Sample ID	Lithium	Sodium	Ammonium	Potassium	Magnesium	Calcium
	mg/g	mg/g	mg/g	mg/g	mg/g	mg/g
FT5086-01	<0.010	0.095	0.105	0.208	0.140	0.441

Quality Control

Quality control standards were analyzed before and after sample analysis to demonstrate instrument accuracy and method control. A blank was analyzed to show that there was no contamination added to the sample during the extraction process or to the column of the instrument. Standard recoveries are stated below:

Analyte	Beginning Standard	Ending Standard	Standard Addition to FT5069-08
Lithium	117%	117%	102.3%
Sodium	107%	107%	102.9%
Ammonium	116%	*132%	103.0%
Potassium	104%	104%	113.3%
Magnesium	*144%	*145%	114.7
Calcium	*123%	*133%	113.3
Sodium	111%	112%	101%

^{*}Standard recovery exceeded method acceptance range of 80-120%.

CHAIN-OF-CUSTODY/ SAMPLE ANALYSIS REQUEST Field Assessment Services Team Special Analytical Services Hanford Technical Services Richland, WA. 99352 (509) 373-3798 FAX (509) 373-3193

Chain-of-Custody/ Sample Analysis Request

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Date	18.14.	
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4843 ALKALI METAL STORAGE FACILITY INSPECTION FOR CARBONATES

CHECKLIST FOR THE 4843 ALKALI METAL STORAGE FACILITY

The surfaces identified below have been verified free of lithium and sodium carbonates by visually inspection.

- A. 4843 AMSF Building Equipment (i.e., shielding concrete blocks and metal drum racks)
- B. 4843 AMSF Building Interior Walls
- C. 4843 AMSF Building Concrete Floor
- D. Inspection Standard:
 - 1) The above identified surfaces were inspected September 25, 1995 and are below action levels as discussed in Chapter 7 of the 4843 Alkali Metal Storage Facility Closure Plan, Revision 1.

The inspections specified in Section D (above) has been satisfied for all surfaces (Sections A-C) visually inspected for carbonates. All surfaces are now deemed free of lithium and sodium carbonate contamination and are no longer considered a dangerous waste.

PC Miller, WHC FFTF Reg Compl Team Leader Name/Title

<u>DH Chapin, DOE-RL/TPD Physical Scientist</u>
Name/Title

SD Stites, DOE-RL/TPD Physical Scientist Name/Title

grature Date

ignature Date

\$ 0 . \$ 19-25-95 Signature Date

Notes:

 Action levels for lithium and sodium carbonate as defined by WAC 173-303-084, Washington State criteria characteristic category D (least toxic) dangerous waste is 10 percent weight per volume of the contaminated material.